

Dart Aerospace Ltd... 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038437

Tel (613) 632-5200

Supplier: MOA001-VU

Monroe Aerospace 399 East Drive

Melbourne, FL 32904 USA Phone: 1-321-727-0047 Fax: 1-321-727-7331 PO No:

PO038437

PO Date:

11/21/17

Due Date:

11/24/17

Purchase Order Revision:

Revision Date:

Ship-To Contact: Phone:

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms:
Special Comments:

Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
	AN4-12		Bolt		Firmed	11/24/17	√00 Ea	0 Ea	100 Ea	\$0.4961/Ea	\$49.61
	MS24693-S49		Screw		Firmed	11/24/17	50 Ea	100 K 0 Ea 50 Y	50 Ea	\$0.05/Ea	\$2.50
3	MS24665-151		Cotter Pin		Firmed	11/24/17	100 Ea	0 Ea	100 Ea	\$0.0319/Ea	\$3.19
4	MS24665-300		Cotter Pin		Firmed	11/24/17	400 Ea	0 Ea		\$0.0409/Ea	\$4.09
5	AN3-3A		Bolt		Firmed	11/24/17	-300 Ea	0 Ea 200	300 Ea	\$0.70/Ea	\$210.00
6	AN526C832R8	_	Screw receive ea	- Parameter and an art	Firmed	11/24/17	100 Ea	0 Ea EO	100 Ea	\$0.075/Ea	! :
7	AN526C832R9	-	Screw	*	Firmed	11/24/17	100 Ea	0 Ea / 00	100 Ea	\$0.06/Ea	!
8	AN5-30A		Bolt		Firmed	11/24/17		0 Ea	L		
9	AN5-32A	- 2	Bolt		Firmed	11/24/17	75 Ea	0 Ea 75x		\$0.6814/Ea	i ‡
10	AN6-13A	-	Bolt	1	Firmed	11/24/17	√40 Ea	0 Ea	40 Ea ⊁	\$0.5004/Ea	\$20.02
Grand Total: \$372.2											

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

SPA-11-30





Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON _ K6A 1K7 Canada

PURCHASE ORDER PO038437

Tel (613) 632-5200

Order Notes

A049 SUPPLIER AWARENESS

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Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/21/17 2:38 PM dart baker diane



MONROE TAX ID: 47-3784072

Invoice

INVOICE #: 620067

OF ITEMS: 11 PAGE: 1

SHIP TO: DART AEROSPACE LTD.
ATTN: RECEIVING

1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7

CANADA

ATTN: DIANE BARKER Ph: 613.632.3336

1270 ABERDEEN STREET

HAWKESBURY, ON K6A 1K7

TO: DART AEROSPACE LTD.

ACCTS. PAYABLE

CANADA

INVOICE DATE: 11/22/2017

TERMS: NET 30

WEIGHT: 17

SHIP VIA: UPS GROUND

ORDER DATE: 11/21/2017

CUST PO: PO038437
FOB: MELBOURNE, FL

OF BOXES:

SHIPMENT #: 0

SHIP DATE: 11/22/2017

SALES ORDER #: 548742

AWB: 1Z3165E06856242851

YOUR MONROE ACCOUNT REP: Luis Sepulveda

M	PART NUMBER/DESCRIPTION		SHIPPEO	B/O	CD	UNIT PRICE	UOM	TOTAL AMT
	AN4-12 BOLT DRILLED		100.00	0.00	NE	0.4961	EA	/ \$49.61
ľ	ECCN#/ 9A991							
	SCHB#: 7318.15.2000				L		┵, 1	
	MFR: AIRFASCO	LOT:25601			REV:	3	T EA	\$2.50
2	MS24693S49 FLAT HEAD SCREW		50.00	0.00	NE	0.0500		γ ψ2.50
	ECCN#: 9A991 SCH##: 7318.15.4000							
Ì	MFR: GENIE	LOT:14-170						\$3.19
3	MS24665-151 COTTER PIN S/S		100.00	0.00	NE	0.0319	EA	× \$5.11
	ECON#: 9A991 SQHB#: 7318.16.0060							
- [MFR: WESTERN WIRE	LOT:DSS11	0514A-4				[/ \$4.0
4	MS24665-300 COTTER PIN S/S		100.00	0.00	NE	0.0409	EA	/ \$4.0
	ECCN#: 9A991 SCHB#: 7318.16.0060							
į	MFR: W.WIRE	LOT:CDMS						2010
5	ANS-SA BOLT UNDRILLED		360.00	0.00	NE	0.7000	EA	\$210.0
	ECCN#: 9A991 SCAB#: 7318.15.2000							
	MFR: AFC	LOT:25531			REV:	3		\$7.5
6	AN526C832R8 TRUSS HEAD SCRE	W	100.00	0.00	NE	0.0750	T EA	\$7.5
	ECCN#: 9A991	İ						1120
	SCHB#: 7318.15.2091						SU 171	
	MFR: MAC	LOT:83800			REV:	6		



MONROE TAX ID: 47-3784072

Invoice

INVOICE #: 620067

DATE PRINTED: 11/22/2017

TIME: 1:24:20 PM

OF ITEMS: 11 PAGE: 2

TO: DART AEROSPACE LTD. ACCTS. PAYABLE 1270 ABERDEEN STREET

HAWKESBURY, ON K6A 1K7

CANADA

ATTN: DIANE BARKER

Ph: 613.632.3336

SHIP TO: DART AEROSPACE LTD.

ATTN: RECEIVING

1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7

CANADA

INVOICE DATE: 11/22/2017

TERMS: NET 30

WEIGHT: 17

SHIP VIA: UPS GROUND

ORDER DATE: 11/21/2017

CUST PO: PO038437

OF BOXES:

SHIPMENT #: 0

SHIP DATE: 11/22/2017 **SALES ORDER #: 548742**

CUSTOMER #: 16754

AWB: 1Z3165E06856242851

FOB: MELBOURNE, FL

YOUR MONROE ACCOUNT REP: Luis Sepulveda

EM	PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM	TOTAL AMT
7	AN526C832R9 TRUSS HEAD SCREW	100.00	0.00	NE	0.0600	EA	\$6.00
	ECCN#: 9A991 SCHB#: 7318.15.2091						
		:84134	I				
8;	ANS-30A BOLT UNDRILLED	30.00	0.00	NE	0.6070	EA	\$18.21
ĺ	ECCN#: 9A991 SCHB#: 7318.15.2000	ĺ					
	MFR: AFC LOT	:11125			1	, , , , , , , , , , , , , , , , , , ,	¢E1 11
9	ANS-32A BOLT UNDRILLED	75.00	0.00	NE	0.6814	EA	\$51.11
	ECCN#: 9A991 SCHB#: 7318.15.2000						
	MFR: AFC LOT	T:15137	,				\$20.0
10	ANG-13A BOLT UNDRILLED	40.00	0.00	NE	0.5004	EA	\$20.0.
1	ECCN#: 9A991 SCHB#: 7318.15.2000						/
	MFR: AFC LOT	T:25482		REV:	3		
1						1	
	!	1	* * * Orde	er Comple 	ete * * * 	1	
		ĺ					
] 11	2 ().
	·		1				
						(T)	
			<u> </u>	l			
PECI	AL INSTRUCTIONS:				SUB TOTAL	<u>.:</u>	\$372.23
					TAX TOTAL	.:	\$0.00
					MISC CHARG		\$0.00
	We Thank You For You	Continued Busin	ess!		FREIGH'	T:	\$44.01
	VVO 1.1				TOTAL	.:	\$416.24
							US



PACKING SLIP

INVOICE #: 620067

DATE PRINTED: 11/22/2017

TIME: 1:24:38 PM

OF ITEMS: 10 PAGE: 1

TO: DART AEROSPACE LTD. ACCTS. PAYABLE 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7 CANADA

SHIP TO: DART AEROSPACE LTD. ATTN: RECEIVING 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7

CANADA

ATTN: DIANE BARKER Ph: 613.632.3336

WEIGHT: 17

SHIP VIA: UPS GROUND

INVOICE DATE: 11/22/2017

TERMS: NET 30

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ORDER DATE: 11/21/2017 SHIP DATE: 11/22/2017

SALES ORDER #: 548742 CUSTOMER #: 16754

AWB: 1Z3165E06856242851

FOB: MELBOURNE, FL

YOUR MONROE ACCOUNT REP: Luis Sepulveda

PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM	
M4-12 BOLT DRILLED	100.00	0.00	NE			
MFR: AIRFASCO	LOT: 25601		REV:	3		
Control #: 155334-3 MS24693S49 FLAT HEAD SCREW	50.00	0.00	NE			
MFR: GENIE	LOT: 14-170	-			, 1	
/Control #: 137853-5 MS24665-151 COTTER PIN S/S	100.00	0.00	NE			
MFR: WESTERN WIRE	LOT: DSS1105	14A-4	1 1		.	
Control #: 141224-4 MS24665-300 COTTER PIN S/S	100.00	0.00	NE			
MFR: W.WIRE	LOT: CDMS09	0616A-4	r 1			
Control #: 158385-1 AN3-3A BOLT UNDRILLED	300.00	0.00	NE			
MFR: AFC	LOT: 25531		REV:	3		
Control #: 155263-1				OP	11-	BO.
				Od		
CIAL INSTRUCTIONS:			- 			
We Thank You For Your	Continued Busines	ss!				
MONROE TAX ID: 47	2794072					



CERTIFICATE OF CONFORMITY

NO: 620067

BILL TO:

DART AEROSPACE LTD. ACCTS. PAYABLE 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7 SHIP TO:

DART AEROSPACE LTD. ATTN: RECEIVING 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7

CUSTOMER PO	SHIP DATE	AIRWAY BILL/TRACKING #
PO038437	11/22/2017	1Z3165E06856242851

PART NO:	Description	CND	QTY	S/L		
AN4-12	BOLT DRILLED	NE	100	29	LOT: 25601	MFR: AIRFASCO
REV: 3	Customer Reference:			1		
MS24693S49	FLAT HEAD SCREW	NE	50	39	LOT: 14-170	MFR: GENIE
MS24665-151	Customer Reference: COTTER PIN S/S	NE	100	71	LOT: DSS110514A-4	MFR: WESTERN WIF
MS24665-300	Customer Reference: COTTER PIN S/S	NE	100	61	LOT: CDMS090616A-4	MFR: W.WIRE
AN3-3A	Customer Reference: BOLT UNDRILLED	NE	300	59	LOT: 25531	MFR: AFC
REV: 3 AN526C832R8	Customer Reference: TRUSS HEAD SCREW	NE	100	62	LOT: 83800	MFR: MAC
REV: 6 AN526C832R9	Customer Reference: TRUSS HEAD SCREW	NE	100	18	LOT: 84134	MFR: CRESCENT
AN5-30A	Customer Reference: BOLT UNDRILLED	NE	30	18	LOT: 11125	MFR: AFC
REV: 1 AN5-32A	Customer Reference: BOLT UNDRILLED	NE	75	20	LOT: 15137	MFR: AFC
AN6-13A	Customer Reference: BOLT UNDRILLED	NE	40	29	LOT: 25482	MFR: AFC
REV: 3	Customer Reference:					

COND	ITIONS:
------	---------

NE - New

OH-OVERHAULED

RP-REPAIRED

SV-SERVICEABLE

We hereby certify that the items that are a part of this Purchase Order have been visually & dimensionally found to conform to all applicable standards, drawings & specifications. The liability of ECAS, LLC is limited to replacement of any item which is rejected because of a defect in material or workmanship if notified within 30 days & liability shall not exceed the invoice value. Such replacement shall constitute satisfaction of all liability.

SIGNED:

V. Xoff

For and on behalf of ECAS, LLC dba MONROE AEROSPACE



2655 Harrison Ave SW Canton, OH 44706 Ph. 330-430-6190, Fax: 330-430-6199, Packing Slip

Original

Invoice #: 150108 Invoice Date: 4/30/2017 Time: 1:59:55 PM

Page: 1

To:			
ECAS, I	LC		
399 EAS	TDR '	•	
MELBO	URNE, F	L 32904	
USA	•		
ATTN:	GARY MI	RAGLIA	
Ph: 321-	727-0047	Fax: 321	-727-7331

Ship To: ECAS, LLC 399 EAST DR MELBOURNE, FL 32904

Cust. PO#: FL79646

Terms: NET 30 # of Items: 6

Ship Via: UPS FREIGHT COLLIShip Via Acc: 3165E0

Order Date: 5/31/2017

'# of Boxes: 10

Weight: 388

Prepared By:

Sales Order: 123547

Ship Log #: 1

Ship Order:

Customer #: 13570

· VAT #:

Cust VAT #:

Ship Date: 6/2/2017

Buyer: GARY MIRAGLIA WO #:

FOB:

AWB:

Shipment:

Item	Part Number/Description	Shipped	BackOrd	CD	List Price	Disc	Unit Price	MOU	Total Amt
1	AN10-15A BOLT, AN ACCEPTED Loc/Whse: BINBOX	2	0	NE .		<u> </u>		EA	
	Control #: 152900-1 L-24949 DFAR TEST REPORTS								• I
2	AN4-7 BOLT, AN ACCEPTED Loc/Whse: BIN BOX	2500	. 0	NE	· ·			EA ~	
	Control #: 17159-2 L-24543 DFAR TEST REPORTS		(10	ا ا	!	}			•
3	AN4-6 BOLT, AN ACCEPTED Loc/Whse: 3A4	2500	Pr	V-Z.	38437	_		EA	•
	Control #: 153426-1 L-24837 DFAR TEST REPORT	:	, ,	Δ.	10L.	i			
4	AN4-12 BOLT, AN ACCEPTED Loc/Whse: 5F2	5000)]	1 1 104	1102. 1 = == =	, l		EA	
	Control #: 154403-1 L-25601 DFAR TEST REPORTS					 			

Loc/Whse: 5F2	, ,	S	1		F 1	- '}		
Control #: 154403-1		!						
L-25601 DFAR TEST REPORTS								
C OF C ENCLOSED 10 BOXES 388 LBS								
PARTS ARE MANUFACTURED IN THE USA!! THANK YOU!		•		}			 	
]	 _		 	
	 						 	
Special Instructions:						·	 	
•	•						 	
			•	į				
				ĺ				
Authorized Signature:				{				



 2655 Harrison Ave SW Canton, OH 44706 Ph: 330-430-6190, Fax: 330-430-6199, Packing Slip

Invoice #: 150108

Original

Invoice Date: 4/30/2017 Time: 1:59:56 PM

Page: 2

To: ECAS, LLC 399 EAST DR **MELBOURNE, FL 32904** USA

ATTN: GARY MIRAGLIA Ph: 321-727-0047 Fax: 321-727-7331 Ship To: ECAS, LLC 399 EAST DR MELBOURNE, FL 32904

Cust. PO#: FL79646

Terms: NET 30

Ship Via: UPS FREIGHT COLLIShip Via Acc: 3165E0

Order Date: 5/31/2017

of Items: 6

of Boxes: 10

Weight: 388

Prepared By:

Sales Order: 123547

Ship Log #: 1

Ship Order:

Customer #: 13570

VAT #:

Cust VAT #:

Ship Date: 6/2/2017

Buyer: GARY MIRAGLIA

FOB:

AWB:

Shipment:

WO #:

Item	Part Number/Description	Shipped	BackOrd	CD	List Price	Disc	Unit Price	NOM	Total Amt
. 5	AN4-12A BOLT, AN ACCEPTED Loc/Whse: 3B3 3D7 Control #: 154600-1 L-26390 DFAR TEST REPORT	5000		NE				EA	
	AN4-11 BOLT, AN ACCEPTED LocWhse: 3A4 Control #: 17161-2 L-24774 DFAR TEST REPORT DFAR TEST REPORT-EMAIL	2500		NE				EA	

			L		L	l	 i :	 1	ļ
10 BO	ENCLOSED KES 388 LBS	•			<u>.</u>				
PARTS	SARE MANUFACTURED IN YOU!	THE USAI!		•			 		
			•				 		
Specia	I Instructions:								
	•								
Author	rized Signature:								



2655 Harrison Ave. SW Canton, Ohio 44706-3047

Phone: 330-430-6190 Fax: 330-430-6199

PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 02/12/16					PART NO.: <u>AN4-12 per NASM4-12 rev.3</u>						
AFC LOT NO.: 25601						QTY MFG.: 24,700					
PROCUREMENT	SPECI	FICATI	ON: _	Produced	per NA	<u>SM 681</u>	2				
				HEAT	TREA	<u>r</u>					
VENDOR: Brite	Metal					CERTI	FICATI	ON NO	<u> 17121</u>	1	
PROCUREMENT	SPECI	FICATI	ON: _	Heat Trea	at per A	MS 275	9				
				PLAT	ING						
VENDOR: Clevela	and Pla	ting				CERTI	FICATI	ON NO	: _50455	54	
PROCUREMENT	SPECI	FICATI	ON: _	Cadmi	um Plate	e per AN	/IS-QQ-I	P-416 D.	Type II,	Class 2	
				MATE	RIAL						
MILL: Charter		_	COL	NTRY C)F MEI	.T: <u>U:</u>	SA		HEAT	r: <u>2033(</u>	290
GRADE SPECIFIC	CATIO	N: <u>Allo</u>	y Stee	l per AM	S 6300 1	E, Type	<u>4037, .3</u>	12"		·	
			403	7 MATE	RIAL (CHEMI	STRY	···········		····	
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-МО-	-CU-	-AL-	Other
LADLE	.350	.760	.008	.002	.200	.040	.060	.220	.080	.044	
	r			PHYSIC	AL PRO						.
PHYSICAL			YIELD	····	SHEAR			HARDNESS			
REQUIRED	4,080 lbs. 3,130 lbs			3,680 lbs.			HRC 26-32				
ACTUAL	6,2781	bs.		5,0252 lb	s.	1 4,3	31 lbs.		HRC	29-30	

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

QS-082 REV 0 2/15 Airfasco Industries Quality AssuranceRepresentatives

T. West



2655 Harrison Ave. SW Canton, Ohio 44706-3047 Phone: 330-430-6190

Fax: 330-430-6199

CERTIFICATE OF CONFORMANCE

ECAS

I Hereby Certify that on 06/02/17Airfasco Industries provided the supplies called for by Contract/ PO Number <u>FL79646</u> in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7009 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

Quality Assurance Representative

LOT NUMBER PART NUMBER LOT NUMBER QUANTITY PART NUMBER **QUANTITY** AN10-15A 2 AN4-7 2500 24949 24543 5000 AN4-6 24837 2500 AN4-12 25601 AN4-12A 26390 5000 AN4-11 24774 2500



1658 Cotd Springs Road Saukville, Wisconsin 53080

[262] 268-7400

14800-437-0789 Fen (262) 268-2570

CHARTER STEEL TEST REPORT

Melted in USA Manufactured in USA

Cust P.O.	40081
Customer Part #	317131
Charter Sales Order	70053176
Heat #	20330290
Ship Lot #	2067309
Grade	4037 X SK FG RHO 5/16
Process	HR
Finish Size	5/16
Ship date	18-JUN-14

Kreher Steel Co - Mélrose Park 1550 N. 25th Ave. Metrose Park,IL-60160

I hereby certify that the material described horein has been manufactured in accordance with the specifications and standards listed below and that it satisfies I these requirements. The recording of false, fictitious and fraudulent statements or entries on this document may be punishable as a felony under federal statute.

SN V
.006 .002
. معمد
•

Test results of Rolling Lat # 2067309

REDUCTION RATIO=637:1

Specifications:

Additional Comments:

Manufactured per Charter Steel Quality Menual Rev Date 9/12/12

Meets dustomer specifications with any applicable Charter Steel exceptions for the following customer documents:

Customer Document = MATERIAL SPECIFICATION Revision = 2 Dated = 13-SEP-11

Cuyahoga Heights, OH, USA

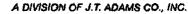
ACCREDITAD)

Testing Laboratory

Jam Bernel Janice Barnard Manager of Quality Assurance Printed Date: 08/16/2014

This MTR supersodes all proviously dated MTRs for this order

Charter Stool





4520 WILLOW PARKWAY CLEVELAND, OHIO 44125 PHONE (216) 641-3290 FAX (216) 641-1223 www.tensile.com

-CERTIFIED TEST REPORT -

Airfasco Industries Inc. 2655 Harrison Ave. SW Canton OH 44706 Job No.:

B4-290-395

Date:

10-23-14

Cust. PO#:

61344

Description:

1 sample

Mill: Charter

Country of Melt: USA

Material:

4037

Heat# 20330290

Spec:

AMS 6300E

TEST RESULTS

Product Analysis of Elements in % (OES per TTML C-011):

	<u>Actual</u>	Requirements
Carbon	0.38	0.35-0.40
Manganese	0.76	0.70-0.90
Phosphorus	0.008	0.035 Max.
Sulfur	0.001	0.040 Max.
Silicon	0.19	0.15-0.35
Chromium	0.05	N/A
Nickel	0,04	N/A
Molybdenum	0.21	0.20-0.30
Columbium	0.002	N/A
Aluminum	0.050	N/A
Copper	0.09	N/A
Vanadium	< 0.001	N/A
Titanium	0.002	N/A

The above conforms to specifications listed.

Authorized Agent





CERTIFICATION OF PROCESS

~1	IST	~==	_
Lil		LJM	=

AIRFASCO INDUSTRIES, INC.

2655 HARRISON AVE SW

CANTON OH 44706

THIS IS TO CERTIFY THAT BRITE METAL INC. HAS PROCESSED THE FOLLOWING MATERIAL IN ACCORDANCE WITH THE MOST WIDELY ACCEPTED METALLURGICAL PROCEDURE.

PO #: 62427

WEIGHT: 563

NO. BINS: 0 NO. PCS: 24,700

PN#: AN4-12

LOT#: 25601

MATERIAL#: 4037

BM ORDER NO: 171211

CORE HARD SPECS: HRC 28-32

PROCESS TO: AMS 2759

DATE RECEIVED: 01/07/16

DATE SHIPPED:

HEAT TREATING TEST RESULTS

CORE HARDNESS:	RC 29 / 30		
SURFACE HARDNESS:	RC 29 / 30 @.003		
CASE DEPTH:	N/A		
CORE HARDNESS	AS QUENCHED	: N/A	
	INSPECT	OR: SK	
	DATE:	1-18-16	

CLEVELAND PLATING, LLC TEST CERTIFICATION

CUSTOMER:

AIRFASCO INC

AIRFASCO INC

2655 HARRISON AVE SW **CANTON, OH 44706**

ORDER #:

62478

FINISHED PRODUCT DESCRIPTION

CERTIFICATION DATE: 02/11/16

AIRFASCO PART#: AN4-12 CAD YELLOW .0003

AMS-QQP-416D TY 2 CLASS 2 CERTIFICATION FOR PROCESS

LOT#: 25601

CP#:

504554

SAMPLING PLAN: Per Cleveland Plating Control Plan, Section 1.5 based on ASME/ANSI B 18.18.4M

Lot Size: 24,700 pcs. - 566 lbs.

Number of Pieces Tested: 12

COATING THICKNESS: Tested in accordance with ASTM E376

Average = .00031

IN.

CORROSION RESISTANCE: Chamber operated in accordance with ASTM B117

Processed to Meet (to comply with salt spray test)

Tested* (*In the event of a failure, customer will be contacted to begin isolation and containment)

ALL PARTS SAMPLED AND TESTED AFTER FINISHING EXCEPT AS FOLLOWS: STRESS RELIEF/HYDROGEN EMBRITTLEMENT RELIEF:

Pre-Bake Temperature (F):

HRS FOR

Post Bake Temperature (F):

FOR

HRS

The purchase order stated above was processed in accordance with Cleveland Plating's QA Manual Rev 01. A sample of the above material has passed the tests required by the purchase order and conforms to the fisted finishing specification. This certification shall not be reproduced without the approval of Cleveland Plating, LLC.

APPROVED BY:

1028 East 134th Street - Cleveland, OH 44110 - PH (216) 249-0300 - FAX (216) 249-0303 www.clevelandplating.com

AIRFASCO Industries

2655 Harrison Avenue SW Canton, OH 44706

Nondestructive Testing Certification Wet Fluorescent Magnetic Particle Inspection Technique

Part Data

Part Number	Lot Number	Dimensions	Part Description
AN4-12	25601	.2500-28 x 1.281	BOLT-MACHINE, AIRCRAFT

Reference Data

Specification	Procedure Number	Acceptance Criteria
ASTM E1444	MT-1	No Cracks, NASM 6812

Inspection Equipment Data

Model Number	Manufacturer	Serial Number				
H-800 Retro	Magnaflux Corporation	91R00150				

Inspection Material Data

Particles	Mfr	Batch No.	Carrier	Mfr	Batch No.
14A	Magnaflux	10G078	MG II	Magnaflux	14B056

Technique Data

		1 ogningao De		
	Circular Field			dinal Field
Type Current	Headshot Amps	Central Conductor Amps	Coil shot Amps	Coil Turns
FWDC	170	N/A	1540	5

Particle application by the flow method, continuous technique

Demagnetization performed by the AC Coil method, Residual field +/-

Inspection Results

1110 00011011 110001100						
Lot Size	Inspection Sample	Quantity accepted	Quantity rejected			
	Size	·				
24700	50	50	0			

Notes:		 		

Performed by Wevel	Reviewed/& Approved by:	Date
W 04	1500	2/12/16
D. SHOUP ASNT NDT LIII#176608	D. SHOUP ASNT NOT LIII#176608	

CUST PO NO SO NO SONO CUST PO NO CUST PO NO 544437 FL78557 FL78557 544437 FL78557 544447 JH FROM: FROM: FROM: 800 CLEARWATER LOOP 800 CLEARWATER LOOP ROD CLEARWATER LOOP BILD INDUSTRIES, INC. BILD INDUSTRIES, INC. POST FALLS ID 83854 BILD INDUSTRIES, INC. POST FALLS, ID 83854 POST FALLS, ID 83854 SHIP EAST COAST AVIATION SUPPLIES T EAST COAST AVIATION SUPPLIES EAST COAST AVIATION SUPPLIES 399 EAST DRIVE 399 EAST DRIVE 399 EAST DRIVE MELBOURNE MELBOURNE FL 32904 FL 32904 MELBOURNE FL 32904 SHIP TO NO. COMPLETE CUSTOMER PO NO. BILL TO NO. CUSTOMER BILL TO ADDRESS PL78557 - > **RCAGO** BUYER NAME & PHONE NO. EAST-COAST AVIATION SUPPLIES 399 EAST DRIVE VICKI NELBOURNE FL 32904 DESCRIPTION LOT 84 OTY ORDERED CUST, PO NO. CUST, NO. INE LOC REV 3 FL78557 BOLT ECA001 AN4C22A DESCRIPTION TOTAL OTY CUST. PO NO CUST, NO. OTY ORDERED LOT. INE LOC FULL CERTSACCEPTED PL78557 ECA001 CERTIFICATION TOT 89% CUST, PO NO. CUST, NO. DESCRIPTION INE LOC CITY ORDERED AN526C832R8 FL78557 ECA001 SCREW 50000 LOT MAG CUST. NO. DESCRIPTION TOTAL DIPY CUST. PO NO. NE LOC OTY ORDERED ACCEPTED SHIPPED THIS ORDER ECAOOI CERTIFICATION FULL CERTS FL78557 DESCRIPTION CUST, PO NO. CUST. NO. TOTAL OTY LOT LOC OTY ORDERED CERTIFICATION FULL CERTS FL78557 ECA001 LOT 81 CUST. PO NO. CUST. NO. DESCRIPTION NE LOC QTY ORDERED TOTAL CEY TJOH AN175-11A FL78557 ECA001 500 DESCRIPTION TOTAL OTY PED THIS ORDER LOT MAI CUST. PO NO CUST. NO. NE LOC QTY ORDERED CERTIFICATION FULL CERTS FL78557 **ECA00** CUST. NO. DESCRIPTION TOTAL OTY CUST. PO NO. VE LOCI OTY ORDERED LOT DATE CERTIFICATION OF CONFORMANCE E HEREBY CERTIFY THAT THE MERCHANDISE INCLUDED ON THIS PACKING LIST IS IN CONFORMANCE TH AN-MS-NAS OR APPLICABLE SPECIFICATIONS AND OR DRAWINGS. DATE SHIPPED TOTAL WT NO CTNS

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

CERTIFICATE OF CONFORMANCE AND MANUFACTURER'S AFFIDAVIT

CUSTOMER BILD INDUSTRIES

PO: 89212

PART NUMBER: AN526C832R8

REV: 6

LOT NUMBER:83800

MANUFACTURED QUANTITY: 172,000

MILL HEAT NUMBER: W8A5

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4 Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 07/28/16

QUALITY ASSURANCE REPRESENTATIVE

Mac Fasteners A TriMas Aerospace Company 1110 E. Enterprise Ottawa, KS 66067

TEST REPORT AND PROCESS CERTIFICATION

CUSTOMER	· 				PO NUMBER	PO	Date	CERT DATE		
	BILD INC	USTRIE			89212	02	04/16	07/28/16		
PART NUMBER	AN526C832R	R	REV 6	PART	TYPE SCREW, N	ACHINE.	rruss Hi	EAD		
LOT NO		UANTITY				REMENT SP				
838	300		172,000			N	ASM6812	REV 3		
	- R/	W MATI	ERIAL IDENTI	FICA	TION (Mill Cert Att	ached)		·		
MATERIAL / MAT	ERIAL SPECIFIC		A493		MILL HEAT NUMBE W8A5		SUPPLIER CEN	TRAL WIRE		
	UE OLIANIC	AL TE	CT DECUIT		ESTING PER N	1468424	2			
	VIECHANIC NSILE STRENG				HEAR STRENGTH	HSIM 131				
	NSILE STRENG	16			NDS / PSI	Fatigue Te	st Sample	Accept		
980						NOT REQL	IRED			
1,400						Stress	Durability	☐ Accept		
1,390							External I	oad Method		
1,350						Load		Hours		
1,380]			Mag	netic Partic	e inspection per		
								E1444		
	•					Sample in	sp 🔲 100	% inst Accept		
						Liqu		nt Inspection per E1417		
			NC	T RE	QUIRED	Sample in		% inst		
MIN. REQ.	660		MIN, REQ.			Magnetic F	ermeability	,		
<u> </u>						ASTM A34	Less than	2.0 Accept		
	1	GICAL EX	AMINATION	. N	OT REQUIRED	Head Mark	ing 🔽	Accept		
Discontinuties			Carb/Decarb	4		Recess To	rque	In/lbs Accept		
Grain Flow			Microstructure	╄-						
Grain Size		`	Workmanship	<u>Ц</u>						
Thread Insp FED-STD-H28/20		System 21	System 22		stem 23 🔲			·		
FINISH / PROCES	SOR: Detray Pl	ating Wor	ks] [EAT TREAT PROCESS	OR: NOT RE	QUIRED			
Cadmium Plate				_] s	PECIFICATION:					
Passivate 🗸	AMS2700	MET	HOD 1 CLASS 4] R	EQUIREMENT:					
					ESULTS: SAMPLE SIZ	Æ:				
ABOVE HAVE BEEN APPLICABLE SPEC CERTIFICATION SH	TEST CERTIFICATION IE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED BOVE HAVE BEEN PROCESSED AND TESTED IN ACCORDANCE WITH THE PPLICABLE SPECIFICATIONFOR THE TESTS REPORTED HEREIN. THIS ERTIFICATION SHALL NOT BE RE-PRODUCED, EXCEPT IN FULL, WITHOUT THE PPROVAL OF MAC FASTENERS, INC. Quality Assurance Representative									

Penth, on Erin, on Dumas, ar Langaster, sc Rotherham, uk

619-267-3752 FAX 613-267-6817 619-833-9632 FAX 619-833-2213 870-383-2980 FAX 870-328-5998 803-283-3383 FAX 803-225-5303 44-1709-376625 FAX 44-1709-637099



FOND DU LAC, WI UNION, IL PERRIS, CA HOUSTON, TX MILTON, FL

920-926-0506 FAX 920-928-0552 915-923-2131 FAX 615-929-2126 851-657-2105 FAX 951-949-6061 920-325-5601 FAX 281-944-932 850-983-9926 FAX 650-983-8338

THE LEADING MANUFACTURER OF STAINLESS STEEL AND NICKEL ALLOY WIRE PRODUCTS EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL: selss@contistwies.com

CENTRAL WIRE 6609 OLSON ROAD TEL: 818-923-2131

UNION: JL 60186-9730 FAX: 816-327-7125

CERTIFICATE OF CONFORMANCE

SOLD TO

RIVER VALLEY TOOL & MFG INC c/o Mac Fasteners, Inc. 1110 Enterprise

OTTAWA

KB 66067

RIVER VALLEY PLANT SHIP TO

MMAC FASTENERS INC.

260 AIRPORT INDUSTRIAL ROAD PARIS AR

AR 72855

aru

USA

ORDER NO.

CUSTOMER'S PO NO. 126723

TYPE OF CERT Customer

CUSTOMER 125370 1213682 WORK ORDER 4182201

DATE SHIPPED 3/10/16

SPECIFICATIONS:

ASTM-A-493-95 (2004)

	TEW DESCRIPTION		
DESCI	RIPTION	SPEC, CLASS	HEAT
Cold Heading 302HQ	Melt mill	UCUM - 1bs	W8,A5
SKIN PASSED Satin .1420 Colls Std. Techcote	Country of origin	OTY SHIP 2144	044

.009	MN 1.64	sı •23	.029	.0021	CR 17.51	NI 9.47
MO ;31	CU 3.32	CO .17	N · . 03·4	AL .0025		

S SHIPPED P	ROPERTIES:		<u> </u>	
TENSILE 83.000 CSI MIN	TENSILE 85.000 KSI MAX			
FTER HEAT T	REAT PROPERTIES:			

* WIRE IS DFARS 252.225-7009 COMPLIANT * PART # 85302-141

The material as shipped is free from marcury contamination. I certify the chemical analysis and physical and machanical test results reported above are correct as contained in the records of the company.

Very solly yours,

AUTHORIZED SIGNATURE

From Saving Farmy #0017 CFTICP2. GAVERIES

DE TRAY Plating Works

Specialized Electro-Piating and Polishing
Nickel Passivate
Copper Bright Dip
Decorative Chrome Strip Copper
Satin Chrome Descale
Zinc

Cadmium

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail: DeTrayPlating@Aol.com

CUSTOMER: Mac Fasteners

Lot#: 83800

PART NUMBER: AN526C832R8

PROCUREMENT SPECIFICATION: n/a

OTHER CONTRACTURAL REQUIREMENTS:

MATERIAL: 302 OUANTITY: 655 lbs

INVOICE NUMBER: 203365

Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with passivate treatment per AMS2700 Method 1, Class 4 and part standard.

DE TRAY PLATING WORKS

NAME:

JOB TITLE: VICE-PRESIDENT

DATE: 7/26/2016

Nº 84134

CERTIFICATE OF COMPLIANCE TEST REPORT

FORM REV A 11/09

MADE IN THE U.S.A.

CUSTOMER NAME EA	AST COAST AVIAT	TON SUPPL	PURCHASE ORDER NO. 70236
PART NO. AN526	C832R9*	REV 6	INTERNAL ROUTING NO. 35998
			QUANTITY TWENTY SEVEN THOUSAND FOUR HUNDRED
			MATERIAL/SPECIFICATION .152 302HQ CINCINNATI KCNS00024
PARTS CONTAINED IN TH INSPECTED IN ACCORDA SPECIFICATIONS.		BEEN MANUFACTURED AND BLE DRAWINGS AND	DATE 5/12/2014
PHYSICAL	- PROPERTIES		CONFORMS TO THE PROCUREMENT SPECIFICATIONS OF:
TENSILE STRENGTH	HARDNESS	SCALE	FF-S-92B
1) 1620.0 LB T	1)		DFARS 252.225-7009
2) 1606.0 LB T 3) 1625.0 LB T	2) 3)		OTHER MECHANICAL TEST DATA
4) 1618.0 LB T 5) 1609.0 LB T 6)	4) 5) 6)		MEET MAGNETIC PERMEABILITY REQUIREMENTS OF FF-S-92B, MIL-I-17214B, AND ASTM A342/A 342M TEST METHOD 3.
7)	7)		PARTS ARE FREE FROM MERCURY AND ASBESTOS CONTAMINATION.
8)	8)		VISUAL AND DIMENSIONAL INSPECTION SATISFACTORY
	•		FINISH
OTHER TESTING:			MEETS PASSIVATION REQUIREMENT AMS2700 MTHD 1 TYPE 6/7 CL1/QQ-P-35
			INSPECTED TO ANSI/ASQ Z1.4 LEVEL 2 REV 2008

ADDITIONALLY,AN ANSI/ASQC Z 1.4 SAMPLE OF THE FINISHED FASTENERS WERE TESTED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS. SAMPLE PARTS AND THE TEST DATA ARE IN OUR RECORDS RETENTION AREA AS OBJECTIVE EVIDENCE AND WILL BE HELD AS REQUIRED.

CRESCENT MANUFACTURING OPERATING, CO.

TRACEY NIKSA, QC TECH

Cage Code #63020 700 George Washington Turnpike, Burlington, CT 06013, U.S.A. Telephone: (860) 673-2591 Fax:(860) 673-5973



310 Birch Street
Forestville, CT 08010
(860) 589-3378
------Calur Coding * Color Identification * Tumbling ------Passivate * Bright Dip ------

CERTIFICATE OF COMPLIANCE

Customer:

Cresent Manufacturing

Part No:

AN526C832R9

Rev

PO No:

35998

Date of Shipment: 5/9/2014

Amount of Parts: 30,000

This is to certify that the material covered by this vertification was manufactured in accordance with applicable specifications, drawings, and / or specal requirements set forth in subject contract, and / or order at the time of delivery.

Physical, chemical, and environmental test reports applicable for the material and / or processes used are on file and available upon request.

Where applicable, final finish requirements were performed by qualified subcontractors who's certificate of compliance and test reports are on file and available upon request.

Material Specifications: MIRAGE EZ451/NITRIC ACID 20-25% @ 130 DEGREES

Finish Specifications: PASS PER AMS2700 REV E MTHD 1 CLASS 4

Roy, Ryan Quality Control Manager

CRESCENT MFG



KOS LIMITED

(YUSAN-DONG) 49. EOSIL-RO, YANGSAN-SI, GYEONGSANGNAM-DO, KOREA

TEL: (055) 389-1050 FAX: (055) 385-9189

E-mail: kosyrd@koswire.com

Inspection Certificate

DATE OF ISSUE: 2014-01-23

DESCRIPTION	STAINLESS STEEL WIRE FOR COLD READING	(HSB)					
MILL CHRT.NO.	AB1-201401A-0258	GRADE	AISI 302HQ				
P.O NO.	13226	DIAMETER	0.1520 inch				
invoice no.	B13A003/02 (B13C140-04)	PINISH	DU X-CO (COIL)				
CONTRACTOR	KOS AMBRICA, INC.	QUANTITY	3,507.7 LBS (16 COILS)				
CUSTONER	CINCINNATI METALS	APP. SPEC	ASTN A 493-09/QQS-763F ISO A3508 A2 ANS STDEB/SAE ALR412				

CHEMICAL COMPOSITION

(wt%)

COMPONIENT CH. NO.	С	Si	Mo	Р	S	Ni	Cr	Cu		
KCNS00024	0.0100	0.4200	0.7800	0.0250	0.0010	9.1700	17.3900	3.2900		
11									 	

INSPECTION RESULTS

ITEMS	SIZR	T/S	R/A			Weight	[
	(Inch) (ks!)	(<u>15</u>	olc o	()	k >	LOT NO.	REGIARK
	10.00100	85,0		}			, m, m,	WOMEN
COTL NO.	-0,00100	75.0						
1	0,1517	78,8	80,3			249.1	1T0101-40117-0001	KCNS00024
2	0.1517	78.8	80,4	1		249.1	170101-40117-0002	į
8	0.1517	78.9	80.3	1	İ	220,5	170101-40117-0003	İ
4	0,1517	78,7	80,4	1		207.2	170101-40117-0004	
б	0.1517	78.8	80.4	i i		231.5	110101-40117-0005	1
6	0.1517	78,8	80.4	1 1		249.1	170101-40117-0008	
7	0.1517	78.8	80.4	1 1		220,5	1T0101-40117-0007	1
8	0,1517	78.8	80.4	1		220.5	110101-40117-0008	
9	0.1517	78,7	80.4) 1		240.8	110101-40117-0009	
10	0.1517	78.8	80.4	!		216,0	170101-40117-0010	
ц	0.1518	79.8	81.0	}]		220,5	1T0101-40118-0011	
12	0,1518	78.9	81.0	i I	ı	227,1	170101-40118-0018	
13	0.1518	79.0	80.6	1 1	1	176,4	170101-40118-0013	
14	0,1518	79.0	80,5			176,4	170101-40118-0014	
1.5	0,1518	78,8	80.8		i	180.8	170101-4011B-0015	1
		<u> </u>		1 i				

REMARKS

D/A CONT. NO: KSS0356/14 Conflict Minerals Compilant DPARS Compliant/Melt in ITALY DPARS per 252,225-7009

KCNS00024=Cogna Heat 372884

We hereby certify that the material described herein has been made in accordance with the specification of the order.

Prior consultation with KOS Quality Control is necessary if used for serospace, nuclear or medical applications. W.S.BAEK

MANAGER OF Q.C Dept.

CONTINUE

CRESCENT MIG

MILLCRRT NO: AB1-201401A-0258

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	10.00100	85		<u>/</u>	 	4		广			LOT NO.	REGIARER
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D/A CONT. NO :	K\$\$0356/1	4	erein has	peen	made in ac	COL	terial des dance with	th	1 0	١,	al) a mar	raz l
Conflict Miner	als Compil	ent 8	pecificat	ion of	the order	•				Γ'	W.S.BAG	CX
DFARS Complian	t/Meit in	ITAL! P	ior cons	ultați	on with KO	S Q	uality Cont	tro	1	l	. ,,	v]
DPARS per 252.	225-7009	204	necessa:	ry if (used for a	ero	uality Cont space, nucl	l ea	r		NANAGER OF Q.C D	ept.
KCNS00024=Cogn	e nest 3/2	וסן רמט	then tear	appell	A#1101191					L		



KOS LIMITED

(YUSAN-DONG) 48, EOSIL-RO, YANGSAN-SI, GYEONGSANGNAM-DO, KOREA

TEL: (055) 389-1050 FAX: (055) 385-9189

E-mail: kosyrd@koswire.com

Inspection Certificate

DATE OF ISSUE: 2014-01-30

DESCRIPTION	STAINLESS STEEL WIRE FOR COLD READING	(TSB)				
WILL CERT.NO.	AB1-201401A-0573	GRADE	AISI 302HQ			
P.O NO.	13228	DIAMETER	0.1520 inch			
invoice no.	B13C140/01 (B13C140-04)	PINISH	DU X-CO (COIL)			
CONTRACTOR	KOS AMERICA, INC.	PTITHAUG	1,263.2 LBS (5 COILS)			
CUSTOMER	CINCINNATI METALS	APP. SPEC	ASTN A 498-09/QQS-763F ISO A3506 A2 ANS STD66/SAB AIR412;			

CHEMICAL COMPOSITION

· (wt%)

CH.NO.	С	Si	Иn	P	S	Ni	Ct	Cu		
KCNS00024 0.	.0100	0.4200	0.7800	0.0250	0.0010	9.1700	17,8900	3.2900		

INSPECTION RESULTS

ITEMS	3128	T/S	R/A			Velght		
COIL NO.	(<u>inch</u>) +0.00100 -0.00100	(ksi) 85.0 75.0)(LOT NO.	REJARK
17 18 19 20 81	0.1517 0,1517 0.1517 0.1517 0.1517	79.0 79.2 79.6 79.1 79.0	80.9 80.7 81.2 80.5 80.9		·	282,2	1T0101-40120-0017 1T0101-40120-0018 1T0101-40120-0019 1T0101-40120-0020 1T0101-40120-0021	KCKS0002

REMARKS

D/A CONT. NO: KSS0416/14 Conflict Minerals Compilant DFARS Compliant/Melt in ITALY DFARS per 262.225-7009 KCNS00024-Cogne Heat 372684 We hereby certify that the material described herein has been made in accordance with the specification of the order.

Prior consultation with KOS Quality Control is necessary if used for aerospace, nuclear or medical applications. W.S.BAEK

MANAGER OF Q.C Dept.

END

CRESCENT MFG

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· INSPECTION (ENTIFICATE 3.1 (BN 10204:2004)
(AAN) DOCUMENT NUMBER 201204:2004)

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POLIASTREILI, ANURA PC (GIRLLY CHTIFICATOR) - ELECTROPICALLY CENTRATED CHTIFICATS

THE MATERIAL MERIS THE REQUIREMENTS OF THE CHURK SENCIPLICATION
THE PRODUCT SALVINGING OF THE CHURK SENCIPLICATION
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(201) DATE 18.07.2013



8261 Cornell Road. Sulte 620 Cincinnati, OH 45249 Ph: 800-999-2600 Fax: 513-755-9603

TEST CERTIFICATE

Bill To:

CRESCENT MANUFACTURING P.O. BOX 1350 **BURLINGTON, CT 06013**

Ship To:

CRESCENT MANUFACTURING 700 GEORGE WASHINGTON TPK. **BURLINGTON, CT 06013**

Customer PO#:

K14-21

Customer Part #:

Invoice Date: 4/4/2014

CMC SO: 26349

Ordered: 4,799

Invoice: 20436

Line: 2

Shipped: See Tags

Item: 3021620HQXC.CTDZ

SPECS

ASTM A-493-05/QQS-763F ISO A3506-A2 AMS 8TD68 SAE AIR4127

The raw meterial does not contain the conflict minerals.

MATERIAL TEST RESULTS

KCNS00024 Heat:

Item Desc:

Chemical Composition %

0.010

C MN

0.7800 0.025 0.001

<u>SI</u> 0.420

.1520 302HQ X-COAT,250 CL

<u>CR</u>

17.390

M 9.170 CU

3.290

MQ 0.000

N 0.000

Mechanical Properties

Actual:

<u>Tensile Strength (KSI);</u> 79.60	<u>Co</u> l	intry of Orgil ITALY	(Melt)	Alt Heat Number 372684	<u>DFAR Compliant (Y/N</u> YES 252.225-7009
					
Tag: 31464	s	26349	932 lb		
Teg: 31465	8	28349	928 lb		
Tag: 31466	8	28349	910 lb		
Tag: 31467	8	26349	759 lb		,
Tag: 31604	8	28349	1,270 lb		•
Total Weight:			4,799 lb		•



Phone: 800.325,3770 or 636,305,1100 - Fax: 636,305,1119 www.WesternWireProd.com - Sales@WesternWireProd.com

October 20, 2017

Made in USA

EAST COAST AVIA SUPS INC 399 EAST DRIVE MELBOURNE, FL 32904

Re:

Purchase Order #

FL80848

Western Wire Order # 524598-00

Dear Madam or Sir:

This is to certify that the referenced shipment contained the items and quantities below.

Quantity	Part Description	<u>Lot</u>	<u>Material</u>
8,000	MS24665-300 3/32 X 3/4 STAINLESS EXT. PRONG - CHISEL PT. COTTER PINS	CDMS090616A-	14
1,000	MS24665-366 1/8 X 1/2 STAINLESS EXT. PRONG - CHISEL PT. COTTER PINS	CDMS063017A	14

are made of the following material:

14 18/8 TYPE 302/304 CHROME-NICKEL, CORROSION RESISTANT STAINLESS STEEL, CONFORMING TO ASME B18.8.1 - 2014 IN ACCORDANCE WITH NATIONAL AEROSPACE STANDARD NASM24665 REV 2 AND PASSIVATED IN ACCORDANCE WITH AMS2700, METHOD 2.

The material as shipped is free from mercury contamination.

L. Braddum, Chief Clerk



Western Wire Products

770 Sun Park Drive Fenton, MO 63026 636/305-1100 Fax: 636/305-1119 800-325-3770 www.westernwireprod.com sales@westernwireprod.com

PACKING SLIP

Order#	Page#	***REPRINT***
457718-04	1	
PO Date	PO#	
12/23/14	10109NV	

. Cust#:

522319

BIII To: EAST COAST AVIA SUPS INC

399 EAST DRIVE

MELBOURNE, FL 329041030

Ship To: E C A S WEST 7540 DEAN MARTIN DRIVE SUITE 506/507

LAS VEGAS, NV 89139

Order Type: EMAIL	4		~ 4 . 4		4
Instructions		Taken By	Order#		
		cinn			
Ship Point	Via		Request	Shipped	Terms
Western Wire Products Co	UPS COL	GR	02/02/15	03/19/15	1%15 N30

LINE	ITEM AND D	ESCRIPTION	BIN	ORDERED	B .O.	SHIPPED L	IM PACKED	TYPE OF CONTAINER CONTAINER
	Western V	Vire Cotter Pins	conform t	++++++ o Federal Speci d. Supporting m	fications	++++++++	+ + + + + + + + + + + + + + + + + + + +	+ + + ** * * * * * *
	test repor	ts are on tile. ∖\	West	41966)		A Company of the Comp	
		MUST HAVE		PACKING SLIP				
	SHIP RUS	H AND BACKOI OMER MUST H	RDER ON A AVE ALL L	I 1 WEEK SHIP ALL ORDERS II OT #'S LISTED	ON PACKING			
	SHIPPING FED X AC	CT.#1581-711!	5-5 (ONLY	DØ NOT HAVE IF ORDERS ARI	E NOTED FED			
10	COLLECT 103012MS1	415047517 51S	:	OVER 200# SHII A 67,000.00	0.00	67,000.00 E/	The second secon	
	Interchang	S STEEL COTT ie Prod: MS246						,- <u> </u>
	COTTER P MS24665 Lot #: DSS1 BULK PAC	-151 10514A-4	Qty:	67,000.00				
6	CTN 1 35, 103114EPCP	# CC 3-19-15 CP		A 1,762.00	1,762.00	0:00 E/		
	STEEL CO Interchang	138 1/16 X 1- TTERS; CAD: P e Prod: MS246	LTD 65-138	A CONTRACTOR OF THE CONTRACTOR				
	EXTENDED	LOW CHROMA PRONG CHISE CC 2-19-15					A CONTROL OF CONTROL O	
	Lines Total	** # of Lines Not I	Printed	Qty Shipped Tol	al .	Total		
Pick	ed By Packed	By Checked By	Cube	Weight	Freight Chi	argës Received	By Date R	eceived

GENIE FASTENER MFG CO

35 CARLOUGH RD - UNIT 1 **BOHEMIA NY 11716** 631-737-4022/FAX 737-4028



243223 10-22-14

Page:

R	EAST	COAST	AVIATION
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399 EAST DR.

MELBOURNE, FL 32904

USA

ATTN: 321-727-0047

EAST COAST AVIATION

399 EAST DR.

MELBOURNE, FL 32904

USA

ATTN: 321-727-0047

Sales Order No: 243524

Order Date:

04/01/14

Cust Code:

787

Lot Number: .

Purchase Order

Ship Via:

UPS

FOB:

NY

Salesperson:

Ü

Line Part Number

Description

UM Qty Ordered

Qty Qty Actually

Shipped

Backordered

001 MS24693S49 "NASM24693S49

ACCEPTED

(07 4 14-170) MANF: GENIE

M

41000.00

2 Boxes W/13,500pcs 1 Box W/16,000015

Total Weight:	Freight: UPS/CAD/CD/led	Date Filled: 10/22/14
#of packages: (3)	COD amount:	Filled By: Day

All returns MUST be reported within 30 days of receipt of goods.

Any shortages or discrepancies MUST be reported within 10 days of receipt.

Rec'd by Form GF26 Rev A 6/18/14

This is to certify that all materials supplied by Genie Fastener Mfg Co., Bohemia, NY 11716, conform to current drawings and are in accordance with applicable specifications. inspected by

PHONE: 631.737.4022 / FAX: 631.737.4028 / EMAIL: quardqc@aol.com

QUALITY MANUFACTURED FASTENERS SINCE 1986

10/22/14

EAST COAST AVIATION SUPPLIES 399 EAST DRIVE MELBOURNE, FL 32904

WE HEREBY CERTIFY THAT THE BELOW ITEMS WERE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH REQUIRED SPECIFICATIONS.

PART NUMBER

PURCHASE ORDER

DESCRIPTION

MS24693S49

70572

8-32 X .437 Csk Head machine screw.

NASM24693S49

Rev 3

1022 steel per Air4127.

Plated per AMSQQ-P-416C, Type II,

Class 3.

QUANTITY

LOT NUMBER

43,000 Pcs.

14-170

HEAT NUMBER: 2NY56 / Industrial Steel & Wire

CHEMICAL ANALYSIS: COPY OF ORIGINAL WIRE CERTIFICATION ATTACHED

TENSILE RESULTS:

(840 lbs. min)

1080 1100

1100

1020

1100

Very truly yours,

GENIE FASTENER MFG. CO.

Mary Richardson

Quality Assurance



1901 N. Narragansett Ave. . Chicago, Illinois 60639 773/804 0404 · Fax 773/804.0408

www.industeel.com

An ISO 9001 Certified Company

06/16/14

ISW Order/Invoice Number: 190610-00

SOLD TO: G0321

GENIE FASTENER MFG. CO.

35 CARLOUGH ROAD

UNIT 1

BOHEMIA

11716

SHIP TO: G0321

GENIE FASTENER MFG. CO.

35 CARLOUGH ROAD

UNIT 1

BOHEMIA

NY 11716

CUSTOMER PO: 2883W

1390HIPC

.1390"C1022 COLD HEADING SAIP AKFG COILS

WEIGHT:

866

HEAT NUMBER: 2NY56

CHEMISTRIES

C .230

Mn .970

P .017 .008

Si .040

PHYSICAL PROPERTIES

TENSILE: 68000. 68000.

ROCKWELL #1:

ROCKWELL #2:

YIELD STRENGTH: 000000/000000

ELONGATION:

REDUCTION: OF AREA: 79.0/79.0

*** SPECIFICATIONS ***

IFI 140

ASTM F2282-03

AIR 4127 CHEM. ONLY

TORSIONS:

BENDS:

SALT SPRAY HOURS:

COATING WEIGHT:

GRAIN SIZE:

**** MERCURY FREE ****

TARIFF: 7217.10

NAFTA:

MELT: TW TAIWAN

NAWIAT ORIG: TW

MILL: CHUN YU

DFAR: N

ROHS: Y

Quality Control/Mahager Rey Domingo.

The values and specifications herein are passed through from the manutacturer directly to the customer. Please see reverseside or www.industeel.com for all Terms and Conditions of Sale.

Material Properties Sheet 70403-MPS Version 1 Approved by BF 11/20/12



DATE

6/16/14 1:37 PM

INDUSTRIAL STEEL & WIRE COMPANY 1901 N. NARRAGANSETT AVENUE CHICAGO ILLINOIS 60639 (773) 804-0404 Prone (773) 804-0408 Fax

PACKING LIST

ISW ORDER #

190610-00

	<u> </u>			1				
	BILL	ro:	;	1	SHIP TO: GENIE FASTENER MFG CO.			
GENIE FA	STENER MF	G CO.	;	1				
35 CARLO	UGH ROAD	UNIT #1	§		35 CARLOUGH ROA	AD UNIT #1		
ВОНЕМІА	, NY 11716		} .	}	BOHEMIA, NY 1171	6		
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				}				
CU	STOMER PO) #	F.O.B.		SHIP VIA	PPD OR COLLECT		
					YRC			
}	2883W		CHICAGO		Q#59612264	PP&A		
,								
SIZE	GRADE	CO	IL/BDL NUMBER		HEAT NUMBER	NET WEIGHT		
.139"	1022			ļ	2NY56	432		
.139"	1022		2		2NY56	434		
}								
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TOTAL WEIGHT

866

UN YU WORKS & CO., LTD.

KANGSHAN DIST. KAOHSIUNG CITY 820, TAIWAN (R.O.C.) FAX:886-7-623-6721















CY-G4-01-16-04

TEST CERTIFICATE

1390 HIPC CY54 REPORT NO: JSW40060301 CUSTOMER INDUSTRIAL STHEL & WIRE P.O.NUMBER: PO# 063158 LSW-4006 INVOICE NO: S/C.NUMBER: USW-35774 DAIR OF ISSUE: 2014/03/19 AISI-1022 AK SAIP 5 BUNDLES MATERIAL SPEC: BUNDLE OTY: BUNDLE WEIGHT: AHT 1955 LBS TOTAL WEIGHT: 9775 1338 CHEMICAL COMPOSITION:% C 30 Ċr Mo HEAT NO. BUNDLE SI Cv Ni Αl MnX1000 X10000 X1000 X100 X100 X100 X100 X100 X100 X1000 X1000 X100 NO 1.5 23 97 2NY56 17 PHYSICAL DIAMETER TENSILEISTRENOTH REDUCTION OF SPHEROIDINED PROPERTIES: KG/MM² AREA% STRUCTURE% MM *** SPECFICATION 0.139+0.001 80 -0.000MAX MIN TEST RESULT BUNDLE NO DIAMETER TENSILE STRENGTH REDUCTION OF SPHEROHMZED STRUCTURE% AREA% MM KG/MM2 1-5 0.139-0.139 68-68 79-79 83-83

Q.A MANAGER:

WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SAUSFACTORY RESULES IN ACCORDANCE WITH REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

S. 7. LA9 4/15/

SILVERMAN-GORF, INC. SPECIFICATION ELECTROPLATING 60 FRANKLIN AVENUE BROOKLYN, N.Y. 11205 (718) 625-1309

CERTIFICATE OF COMPLIANCE

Cert # GUM14038

Date : 10/20/2014

1.IT IS HEREBY CERTIFIED THAT ALL THE ARTICLES

IN THE QUANTITIES AS CALLED FOR IN:

- A/ CONTRACT No: LOT 14-170
- B/ PURCHASE ORDER No: PL14103
- C/ PLACED BY: GENIE FASTENER CO
- D/ SILVERMAN-GORF.INC JOB No: 57583
- E/ PART DESCRIPTION AND SIZE: CSK HD SCREW 8-32X437
- F/ PART NUMBER: MS24693S49
- G/ QUANTITY BY WEIGHT: 110.00

BY PIECES: Not Available:

- H/ SPECIFICATION: AMSQQP416F: TY2: CL3
- I/ HYDROGEN EMBRITTLEMENT RELIEF: None:

ARE IN CONFORMANCE WITH THE REQUIREMENTS, SPECIFICATIONS AND DRAWINGS LISTED IN THAT ORDER.

2. CONFIRMING THE DATA IS AVAILABLE AT 60 FRANKLIN AVENUE,

BROOKLYN, N.Y. 11205.

BY: SILVERMAN-GORF, INC.

President



2655 Harrison Ave. SW Canton, Ohio 44706-3047 Phone: 330-430-6190

Fax: 330-430-6199

CERTIFICATE OF CONFORMANCE

ECAS

I Hereby Certify that on 04/25/17 Airfasco Industries provided the supplies called for by Contract/PO Number <u>FL79288</u> in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7009 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

Quality Assurance Representative

WM DENT

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN5-30A	11125	1000			
				· · · · · · · · · · · · · · · · · · ·	



2655 Harrison Ave. SW Canton, Ohio 44706-3047

Phone: 330-430-6190 Fax: 330-430-6199

HARDNESS

HRC 26-32

HRC 30-31

- Wast

PHYSICAL AND CHEMICAL CERTIFICATION

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

YIELD

4,980 lbs.

7,900 lbs.

Airfasco Industries
Quality Assurance Representative:

T. West

SHEAR

5,750 lbs.

6,301 lbs.

AIRFASCO INDUSTRIES QUALITY CONTROL FORM 1011B

PHYSICAL

REQUIRED

ACTUAL

TENSILE

6,500 lbs.

8,298 lbs.

BOS CUYAHOGA, L.L.C. 31000 COLON ROAD SCLON, OHIO

MATERIAL CERTIFICATION .

DATE:

MEY OF PAUL

ELIP NO: 68851

Soid tou. ? S AIRPASCO INDUSTRIES 2635 KARRISON AVE EW OH 44706-3047 CANTON

Elip to: AIRPASCO INDUSTRIES 2855 MARRISON AVE. S.W.

GANTON OH 44709-3047

ALL CHEMISTRY DATA IS CERTIFIED BY THE HOT MILL SUPPLIER. WHEN ELEMENT CONTENTS ARE REPORTED AS ZERG, ACTUAL CONTENTS MAY EQUAL MERO OR WERE NOT REPORTED BY THE HOT ROLL MILL.

Oust No. Customer P.O. No. 1030/00 34924

Ship Date Ship Vie 5/05/04 CUST TRUCK dol

يتبأنه أبهار بسبهريد بوضيفانا فأما

F.C.B. SOLON

Our Order NO. 29360/

Order Dete 12/11/03

Sties Rep 07 .

Gty. Shipped 38.580.00

Item Description: 21/64"R SAROD, PROS POLY COIL 6037 0.3291RAIROL1

Mest# 7280171

CHEMICAL ANALYSIS

, Kn P s · Fb 12 Cr N. Kε .009 . 370 . .790 .008 . 260 .080 .020 -. 22C . 41 Ĉ٤ . 65 . Sn ΩE. .001 .033 ..020 Ss .001 .001

N DI (In) . 9545

MECHANICAL PROPERTIES

ARRESSTUCTURE FRREERINGFAMER YS . 2% OFF 921 . Text. ST. 25. La. LOOM SPA TOECC

**** Red. - Area ***Carbon Free **?, A.D Decarb MBM. Approvad . 555 .003 eteve eryner

MATERIAL INFORMATION

NOT MILL REDUCT, RATIO CAST METHOD REPUBLIC

915287

GRAIN PRACTICE DRIG MEST ERS FIRE

CCKMENTS:

04/30/04 SB SAC/RÖD

RECEIVED MAY 6.7 2004 . .

a right the Cir. (1) Model's GO . 196

4520 WILLOW PARKWAY CLEVE, AND, OHIO 44324 PHONE (210: 641-3290 FAX (216) 641-1023 was tensile com

Airfasco Industries Inc. 2655 Harrison Ave. SW Canton OH 44706

Job No.:

B4-237-326

Date:

8-27-14

Cust. PO#:

61206

Description:

1 sample

Mill: Republic

Country of Melt: USA

Material:

4037

Heat# 7280171

Spec:

AMS 6300E

TEST RESULTS

Product Analysis of Elements in % (OES per TTML C-011):

	Actual	Requirements
Carbon	0.35	0.35-0.40
Manganese	0.80	0.70-0.90
Phosphorus	0.009	0.040 Max.
Sulfur	0.005	0.040 Max.
Silicon	0.25	0.15-0.35
Chromium	0.08	0.20 Max.
Nickel	0.03	0.25 Max.
Mołybdenum	0.22	0.20-0.30
Columbium	0.002	N/A
Aluminum	0.035	N/A
Copper	0.02	0.35 Max.
Vanadium	0.001	N/A
Titanium	0,002	N/A

The above conforms to specifications listed.



This Report May Not Be Reproduced Except in Full

Page 1 of 1 This report represents Tensile Testing interpretation of the results obtained from the test and is not to be construed as a Guaranty or Werranty of the condition of the materials tasted. Tensile Testing shall not be hold liable for misinterpretation of conditions, loss, damage, injury or death arising from or all ributable to delay preceding a test or subsequent to performance of a test. **USA HEAT TREATING INC..**

4500 LEE ROAD, CLEVELAND OH 44128 (216) 587-4700 FAX: (216) 587-0707

SO#:

82547

Date Recieved: 1/12/2005

P.O.: 37046

CERTIFICATION

Customer AIRFASCO INDUS

Description BOLT, AN Part Number: AN5-30A Containers: 3 Bins

Weight 2269 Material: 4037

Type Of heat Treatment: Neutral Harden

RC 28-32

Customer Specifications: NEW PART CERTS

LOT # 11125 BIN # 1121-1091-1094

Test Results:

RC 31.8-30.9-30.8-30.7-30.5-31.3-31.9-31.7-31.3-31.9-31.5-31.6 \(\) 31.3-31.9-31.4-31.6-31.5-31.2 \(\) 30N\\(\) 50-51-50-51-51

The above order has been processed and inspected. All samples tested were within the above stated results.

Tested By: DELANEU

Date 1/14/2005

BY: Quality Control

Approved quality technician

CERTIFICATE OF COMPLIANCE

Approved by Bruce Hog Revision Date: 3-9-

SUPPLIER:		ER PLATING, INC. /alera Ave. H 44310	CUSTOMER:	Airfasco Industries	
Purchase Orde	r Number	37076			
Part Number		AN5-30A		Rev.	
Lot Quantity		2,269 lbs.			
Specification		Cad/QQ-P-416F A	mendment 3 Ty 2 Cl 2		
Coating thickne	ess	.0003"	, , , , , , , , , , , , , , , , , , ,		
Baking (if requi	red)	N/A	Hours at	F	3346
Inspection Leve S-3 of MILST		able standard: 4 %	ACC. X		
ASTM B602 Ta		1.50%			n sal
Aircraft Braking	System:	1%	200		Gordan
Certified By:		Company of the second		Date: _1/ <u>/</u>	
	James B Presiden	eringer Jr. t			

AIRFASCO Industries

2655 Harrison Avenue SW Canton, OH 44706

Nondestructive Testing Certification Wet Fluorescent Magnetic Particle Inspection Technique

Part Number	Lot Number	Dimensions	Part Description
AN5-30A	11125	5/16-24 X 3 3/32	BOLT-MACHINE, AIRCRAFT

Reference Data

Specification	Procedure Number	Acceptance Criteria
ASTM E1444	MT-1	No Cracks, NASM 6812

Inspection Equipment Data

Model Number	Manufacturer	Serial Number
H-800 Retro	Magnaflux Corporation	on 91R00150

Inspection Material Data

Particles	Mfr	Batch No.	Carrier	Mfr	Batch No.
14A	Magnaflux	10G078	MG II	Magnaflux	14B056

Technique Data

	Circular Field		Longitudinal Field	
Type Current	Headshot Central Amps Conductor Amps		Coil shot Amps	Coil Turns
FWDC	200	N/A	850	5

Particle application by the flow method, continuous technique

Demagnetization performed by the <u>AC Coil</u> method, Residual field +/- <u>3</u>

Inspection Results

		·	
Lot Size	Inspection Sample	Quantity accepted	Quantity rejected
	Size		
33003	50	50	0

Notes:		
A #	A #1	
Performed by-Level	Reviewed Appeared by:	Date

Perforted by Level	Reviewed Appeared by:	Date
1906	WOW	10/22/14
D. SHOUP ASNT NO LEVEL III	D. SHOUP ASNT NEW LIII #176608	



2655 HARRISON AVE. SW CANTON, OH 44706 PHONE: (330)430-6190 FAX: (330)430-6199

CERTIFICATE OF CONFORMANCE

BILD INDUSTRIES

I Hereby Certify that on 04/11/14 Airfasco Industries provided the supplies called for by Contract/PO Number 70679 in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7014 ALT 1 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

Quality Assurance Representative

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN5-32A	15137	5000			
					· .
					•
					·



2655 HARRISON AVE. SW CANTON, OH 44706 PHÖNE: (330)430-6190 FAX: (330)430-6199

PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: <u>03/1</u> 4	1/08	4.,			P	ART N	O.: <u>AN5</u>	-32A per	NASM	<u>15-32A re</u>	<u>v. 1</u>
AFC LOT NO.: 15	137				Q	TY ME	G.: <u>22,6</u>	96			
PROCUREMENT	SPECIF	ICATIO)N: <u>Pro</u>	duced pe	er NASI	<u>М 6812 г</u>	ev. 2		•		
				HEAT T	TREAT						
VENDOR: Brite Me	etal				C	ERTIF	ICATIO	N NO.:	<u>B-1387</u>	64	<u>-</u>
PROCUREMENT	SPECIF	ICATIO)N: <u>He</u> :	at Treat p	per AMS	S-H-687	5 A	 	····		
		٠.		<u>PLATI</u>	<u>NG</u>						
VENDOR: Beringer	r Plating	<u></u>			C	ERTIF	ICATIO	N NO.:	48358		
PROCUREMENT	SPECIF	ICATIO)N: <u>Ca</u>	dmium P	late per	AMS-C	OQ-P-410	6 <u>B, Type</u>	II, Clas	ss 2	
				MATEI	RIAL						
MILL: Republic			COUN	TRY O	F MEL	T: <u>USA</u>			НЕАТ:	7243491	
GRADE SPECIFIC	CATION	i: <u>Alloy S</u>	Steel pe	r AMS	6300 C.	Type 40	37, .328	», ·			
		····	4037	MATER	RIAL C	HEMIS	TRY		j		
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	Other	Other
LADLE	.380	.800	.009	.003	.210	.030	.080	.260	.020		
-	·			YSICA	L PROI				1		
PHYSICAL	TENSI	LE	Y	ELD		SHE	EAR		HAR	DNESS	

Non-Destructive Magnetic Particle per ASTM-E-1444-01

5,750 lbs.

6,847 lbs.

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

Airfasco Industries
Quality Assurance Representative:

4,980 lbs.

7,913 lbs.

wm. Dent

HRC 26-32

HRC 29-30

REQUIRED

ACTUAL

6,500 lbs.

8,321 lbs.



2655 Harrison Ave. SW Canton, Ohio 44706-3047 Phone: 330-430-6190

Fax: 330-430-6199

CERTIFICATE OF CONFORMANCE

ECAS

I Hereby Certify that on 04/11/17 Airfasco Industries provided the supplies called for by Contract/PO Number <u>FL79150</u> in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7009 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

Quality Assurance Representative

WM. DENT

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN6-13A	25482	1600			



Lowett, MI 49331 Phone (616) 897-6080 Fax (616) 897-6226

SOLD TO

G3 Steel Groupc/o AIRFASCO 2655 HARRISON AVE SW -CANTON, OH 44706 USA .

CERTIFICATION

WORK ORDER F2330

HEAT NO. 1Q2137 SALES ORDER / RLS F2330 / 1 ISO 9001-2006 REGISTERED

CERT# 911.01

CUSTOMER P.O 61667-2	cus	TOMER PA	RT	_ :	QUANTITY 10,304		ÇARR	IERS	LADING NO .00117024	SHIPMENT DATE
SPECIFICATION (A-4037, AKFG, (614037-3 HQ WIRE			sphate and	Lube Co	ating	, Size:	0.389/0.39		* 2
CERTIFICATION RE	QUIREMEN	TS		_					1	See 15
•				Chemi	cal Proper	ties				
C .38	8i .24	Mn .77	.012	8 001مبر	'Cu . 05		N1 .07	Cr .07	Mo .219	Al N, 040 .0042
		•		Physic	cal Proper	tles	. +	_		
Mill Source Rocky Mounts	Grain	Śizo 6	· · · · · · · · · · · · · · · · · · ·	-	w. 16	b .			· 77.1	e stant zamak –:
·	·		- 	Mechat	nical Prope	rtles				
iESI % Spheroidizati Tensile Strengti		%	<u>NITS</u> SI	,			-		•	Results ** 85 .73.8

Nerchandus sovered by this involve to warranted to be free irons detects in workwarenty or createrist but not for any specific langth of time, type or research of service. Ho claim for allowance will be exceptioned urface presented its writing within 10 days time after receipt of missistim. Our maximum fability for any dain predictated upon defective merchandus in engineers of its expenses of the publicage price thereof, as we dead, Material out to specific langth or size centrol be returned for credit and request for cancellation of such orders will not be considered if missisticity has been commanded. Buyer, by acceptance of the merchanduse covered by this freedom, agrees to the foregoing terms and conditions and those set forth on the revenue transfer. The recording of takes, follows or insultated statements or entires on this document way be purished as a laterny under Federal law. This 18, Chapter 47.*

REPRODUCTION OF THIS CENTIFICATION IS NOT ALLOWED UNILESS IN FULL.

Were flock, inc., mysellurgious littlements is accredited in the individing tests: character steady and under the state of the properties are Met Source results. Winnerfield from mile continues. HTS(W) are hardness essues performed with a 17/6" carbote ball, Unless otherwise specified, HTBs and HTC results are converted by a virtual HTC results are converted by a 22.A or converted by Wire Test, Inc. A2.A accreditation, Tests which have been understand by a autoconvence of the properties are not endorsed by A2TA or converted by Wire Test, Inc. A2.A accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

LATEST REVISIONS OF ASTM?

Material is free of mercury, radiium, or afriba contamination

Material is free of mercury, radium, or alpha contamination.



Michigan Wire Tech, LLC

2487 W. Main Street ph(616)897-6080 P.O. Box 70 fx(616)897-6226

Lowell, MI 49331

THIS REPORT SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN APPROVAL OF MICHIGAN WIRE TECH LLC

We hereby certify that test results shown are correct as contained in the records of the company. These results relate only to the items tested.

Kevin Day Director of Quality Assurance

Kmi Clay

	1									
			,		Test R	eport				36110
		Purchase Order - S	old To	Pur	chase O	rder - Ship To		-	. Sold To	D
1293		H796	2			-1		G3		
		Vehdor '		Report I	Date:	J#	,			
	Michig	gan Wire Tech LL	¢ .	10-6-	14	J1230	012 .	•	L-1 - L-1	
	2487	West Main St.		Shipped.	Date'	Packing	Slip#		Ship To	
	Lowel	I, MI 49331				ļ				
	Speci	lication	Size	Gràde	Qui	intity of Ex				
	1	VA I	.390	4037			10142	 		
Tensile	KSI	Hardness HRB	ROA %	Spheroidizatio Minimum	n %	Deenro 0.001 TAD	Inches)			
74.0		80	70.3	90	-	1				
					1					
							1			
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leat Analysia (Al	lesis were j	erformed	by Mich	igan Win	e Tech Li	LĈ, inles	s othervi	se specifi	ed, in ac	ordance	with the	following	Mechai	ticel Prop	erties per ASTM	E8, Rockivel	l Hardness
. (Vrt. %) per	ASTM EIS	. Spheroi	dization	per IFI-I	40 and C	ecarburiz	ration per	ASTM E	31077. A	il tests pe	rformed t	o the cur	rent stand	dard date,	unices otherwise	nored	
Heat # C	Mn	P	S	SI	Cu	Ni	CR	MO	AL	В	_SN_	V	N	CB	V	Mill	
4004074	77	012	001	24	05	07	לח	710	nan	0001	กกว	nne	0042	1		EV/RA7	



A DIVISION OF J.T. ADAMS CO., INC.

4520 WILLOW PARKWAY CLEVELAND, OHIO 44125 PHONE (216) 641-3290 FAX (216) 641-1223 www.tenske.com

CERTIFIED TEST REPORT

Airfasco Industries Inc. 2655 Harrison Ave. SW Canton OH 44706

Job No.:

1501-15-0685

Date:

1-19-15

Cust. PO#:

61593

Description:

1 sample

Mill: Evraz

Country of Melt: USA

Material:

4037

Heat# 1Q2137

Spec:

AMS 6300E

TEST RESULTS

Product Analysis of Elements in % (OES per TTML C-011):

	Actual	Requirements
Carbon	0.38	0.35-0.40
Manganese	0.80	0.70-0.90
Phosphorus	0.008	0.040 Max.
Sulfur	<0.001	0.040 Max.
Silicon	0.23	0.15-0.35
Chromium	0.06	0.20 Max.
Nickel	0.07	0.25 Max.
Molybdenum -	0.22	0.20-0.30
Columbium	< 0.001	N/A
Aluminum	0.045	N/A
Соррег	0.05	0.35 Max.
Vanadium	0.006	N/A
Titenium	0.003	N/A

The above conforms to specifications listed.

Authorized Agent





CERTIFICATION OF PROCESS

Cl	15	T	n	М	F	R:
~			-	371	-	-

AIRFASCO INDUSTRIES, INC

2655 HARRISON AVE SW

CANTON OH 44706

THIS IS TO CERTIFY THAT BRITE METAL INC. HAS PROCESSED THE FOLLOWING MATERIAL IN ACCORDANCE WITH THE MOST WIDELY ACCEPTED METALLURGICAL PROCEDURE.

PO #: 62330

WEIGHT: 1,429 NO. BINS: 1

NO. PCS: 24,400

PN#: AN6-13A LOT#: 25482

MATERIAL#: 4037

BM ORDER NO: 171014

CORE HARD SPECS: HRC 28-32

PROCESS TO: AMS 2759

DATE RECEIVED: 12/01/15

DATE SHIPPED:

HEAT TREATING TEST RESULTS

CORE HARDNESS:	RC 29 / 30	
SURFACE HARDNESS:	RC 29 / 30 @.00	03
CASE DEPTH:	N/A	
CORE HARDNESS A	S QUENCHED:	N/A

			INSPE	CION	(: <u>2¥</u>	
The state of the s	Carmer's might brenderen im	•				. •. •
			DATE:		12-14-15	

Approved by Bruce Hogie Revision Date: 2/13/2013

CUSTOMER: Airfasco Industries, Inc.

CERTIFICATE OF COMPLIANCE

SUPPLIER: BERINGER PLATING, INC.

1211 DeValera Ave.

Akron, OH 44310

330-633-8409 Fx 330-633-8447

sales@beringerplating.com

Beringer Involce: 91	405				
P.O. Number: <u>62</u>	396				
Part Number: At	N6-13A				÷
Lot Number: 25	482-01		•		
Lot Quantity:	24,400	pcs			
	admium Plate per AMS-l			ir during processing or te	sting of parts on this contract.
Coating Thickness: .0	003 inches				•
Embrittlement Relief Baked:	N/A - Hours at		F WithIn 1 Hou	r of Plating.	
Inspection Level to applic S-3 of MILSTD1050: ASTM B602 Table II: Aircraft Braking System:	. 4 1,50	%	ACC. <u>x</u>		
	James Beringer Jr. resident	Bering	es of .	Date	e: <u>1/5/2016</u>

AIRFASCO Industries

2655 Harrison Avenue SW Canton, OH 44706

Nondestructive Testing Certification Wet Fluorescent Magnetic Particle Inspection Technique

Part [)ata
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Part Number	Lot Number	Dimensions	Part Description
AN6-13A	25482	.3750-24 X 1.453	BOLT-MACHINE, AIRCRAFT

Reference Data

Specification	Procedure Number	Acceptance Criteria		
ASTM E1444	MT-1	No Cracks, NASM6812		
7,01111121777	 	140 Clacks, 14ACIVICO12		

Inspection Equipment Data

Model Number	Manufacturer	Serial Number
H-800 Retro	Magnaflux Corporation	91R00150

Inspection Material Data

Particles	Mfr	Batch No.	Carrier	Mfr	Batch No.
14A	Magnaflux	10G078	MG II	Magnaflux	14B056

Technique Data

	Circ	ular Field	Longitudinal Field		
Type Current	Headshot Amps	Central Conductor Amps	Coil shot Amps	Coil Turns	
FWDC	250	N/A	1990	5	

Particle application by the flow method, continuous technique

Demagnetization performed by the <u>AC Coil</u> method, Residual field +/- <u>3</u>

Inspection Results

Lot Size	Inspection Sample Size	Quantity accepted	Quantity rejected
24400	50	50	0 '

Notes:

Performed by 1 Level	Reviewed & Approved by:	Date
NOBE	17062	1/8/16
D. SHOUP ASNT NOT LEVEL III	D. SHOUP ASNITADT LIII #176608	



2655 Harrison Ave. SW Canton, Ohio 44706-3047

Phone: 330-430-6190 Fax: 330-430-6199

CERTIFICATE OF CONFORMANCE

ECAS

I hereby certify that on 06/05/17 Airfasco Industries provided the supplies called for by Contract/
PO Number <u>FL79636</u> in accordance with all applicable requirements for shipment. I further
state/ that the process certifications are in conformance with the contract requirements, including
specifications and/or drawings, physical item identification (part number) and the quantity shown
on this or attached acceptance document. The part numbers certified below have been
manufactured in the United States.

Quality Assurance Representative

WM. DENT

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN3-3A	25531	50,000	AN3-30	24921	250
	1				
	· · · · · · · · · · · · · · · · · · ·		·		
·					
	/				
•				,	
•		-			



2655 Harrison Ave. SW Canton, Ohio 44706-3047 Phone: 330-430-6190

HRC 29-30

- Wat

Fax: 330-430-6199

PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 11/23/15 PART NO.: AN3-3A per NASM3-3A rev. 3								v. 3				
AFC LOT NO.:	2553	<u> </u>				QTY M	FG.:_2	33,500		•		
PROCUREMENT SPECIFICATION: Produced per NASM 6812												
				HEAT	TREA	Τ						
VENDOR: Brite Metal CERTIFICATION NO.: 170678												
PROCUREMENT	SPECI	FICATI	ON:	Heat Trea	at per A	MS 275	9					
				PLATI	NG							
VENDOR: Bering	er Platii	ng				CERTI	FICATI	ON NO.	: <u>90480</u>)		
PROCUREMENT	SPECI	FICATI	ON:	Cadmin	um Plate	e per AN	1S-QQ-F	-416 D.	Type II,	Class 2		
				MATE	RIAL							
MILL: <u>ISW/Arcel</u>	or		COT	JNTRY O	F MEI	.T: <u>US</u>	SA		НЕАТ	r: <u>C972</u> 1	11	
GRADE SPECIFIC	CATIO	N: <u>Allo</u>	y Stee	l per AM	S 6300	F, Type	403721	18"	·		<u></u>	
4037 MATERIAL CHEMISTRY												
ELEMENT-ID.	-C-		-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	-AL-	Other	
LADLE	.390	.850	.004	.009	.220	.010	.030	.234	.020	.028		
			-,-,									
				PHYSICA	AL PRO							
PHYSICAL	TENS			YIELD	······································	SHEAR				DNESS		
REQUIRED	2,210			1,690 lbs.			25 lbs.			28-32		
ACTUAL	3,836	3,836 lbs. 2,984 lbs.					2,646 lbs.			HRC 29-30		

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

QS-082 REV 0

Airfasco Industries Quality Assurance Representative:

2,646 lbs.



1901 N. Narragansett Ave. • Chicago, Illinois 60639 778/804.0404 • Fax 773/804.0408

www.industeel.com

An ISO 9001 Certified Company

09/30/14

۴,

ISW Order/Invoice Number: 172668-01

SOLD TO: A3635

Airfasco Industries 2655 HARRISON AVE SW SHIP TO: A3635 Airfasco Industries 2655 HARRISON AVE SW

CANTON

OH 44706

CANTON

OH 44706

CUSTOMER PO: 60345

2180ACPC

.2180 A4037 C/C ANNEALED ROD PHOS LUBE CLS

WEIGHT:

2998

HEAT NUMBER: C97211

CHEMISTRIES

.390

Mn .850

٠٣ .009

s · .009

Si .009

PHYSICAL PROPERTIES

TENSILE: 68326. - 73150.

TORSIONS:

ROCKWELL #1:

ROCKWELL #2:

YIELD STRENGTH: 000000/000000 ELONGATION:

REDUCTION OF AREA:

BENDS:

SALT SPRAY HOURS:

COATING WEIGHT:

GRAIN SIZE:

**** MERCURY FREE ****

***: SPECIFICATIONS ***

AMS 6300 CHEM ONLY

ASTM F 2282-03

IFI 140

TARIFF: NAFTA: B

MELT: US

UNITED STATES

UNITED STATES ORIG: US

MILL:

DFAR: Y

ROHS: Y

Quality Control/Manager

Emerial

The values and specifications herein are passed through from the manutacturer directly to the customer. Please see reverse side or www.industeel.com for all Terms and Conditions of Sale. Material Properties Sheet 70403-MPS Version 1 Approved by BF 11/20/12



Certificat d'essai/Test Certificate

Usine de Contrecoeur Est / Contrecoeur Bast works

5500	ARR	200	ES
------	-----	-----	----

Vendue 1 - Sold to INDUSTRIAL STEEL & WIRE COMPANY OF ILLINOIS LLC. 1901 N. Narragansett CHICAGO IL 60639 ETATS-UNIS

Expédit à - Shipped to EMERALD STEEL PROCESSING 31650 Stephenson Highway MADISON HEIGHTS MI 48071 ETATS-UNIS

No de com. No de bon de comm. Customer Order Sale order 113722 862227

Connaissement Bill of lading Date expé... Date shioped Date du têrî Certificate Date 805886E3 2013/11/11 2013/11/11

No do Certificat Certificate no 0000254482

Article Description

No Matériel No pièce Material No Pari No 21008572 0000000000

Poids expédia Weight Coulée Heat 36,03758

C97211_01

000002 Cold Heading Qual WE, Green Rod ALLOY 4037, 0.217°- 5.50mm ALLOY 4037 ISW

ANALYSE CHIMIQUE CHEMICAL ANALYSIS (%) Coulde/Heat: C17711_01 ALE 0.29 0.004 0.009 0.22 0.02 0.01 4.03 0.234 0.003 A.000 0.028 0.627 Coulée/Hust: £97211__01 D.I. C.E. 485 Bi #Day 0.0022 0.001 0.001 0.0005 0.0019 0.000 0.000

Remarques/Remarks:

[The chemical analysis was performed at ArcelorNittal Montreal Inc. laboratory, 3900 route des Aciéries, Contreceeur (Québec) JOL 100 Canada. The laboratory is accredited by SNO according to ISO-17025 (certificate no 270). The testing methods used by the laboratory are ASTM 2415 and ASTM E1019.

Signature: Métallurgie (A/Q) Metalizingy (Q/A)

Michel Trudeau



CERTIFICATION OF PROCESS

CUSTOMER:

AIRFASCO INDUSTRIES, INC

2655 HARRISON AVE SW

CANTON OH 44706

THIS IS TO CERTIFY THAT BRITE METAL INC. HAS PROCESSED THE FOLLOWING MATERIAL IN ACCORDANCE WITH THE MOST WIDELY ACCEPTED METALLURGICAL PROCEDURE.

PO #: 62185 WEIGHT: 1607 LBS

NO. BINS: 1

NO. PCS: 233,500

PN#: AN3-3A

LOT#: 25531

MATERIAL#: 4037

BM ORDER NO: 170678

CORE HARD SPECS: HRC 28-32

PROCESS TO: AMS 2759

DATE RECEIVED: 10/07/2015

DATE SHIPPED:

HEAT TREATING TEST RESULTS

CORE HARDNESS:	RC 29	/ 30
SURFACE HARDNESS:	RC 29 / 30	@ .003
CASE DEPTH:	N/A	
COPE HARDNESS	S OHENCHED:	N/A

INSPECTOR: SK **DATE:** 10-21-15

Approved by Bruce Hogie Revision Date: 2/13/2013

CUSTOMER: Airfasco Industries, Inc.

CERTIFICATE OF COMPLIANCE

SUPPLIER: BERINGER PLATING, INC.

1211 DeValera Ave. Akron, OH 44310

330-633-8409 Fx 330-633-8447

sales@beringerplating.com

Beringer Invoice:	90480						
P.O. Number:	62270		···				
Part Number:	AN3-3A						
Lot Number:	25531-01	•					
Lot Quantity:	233	3,500	pcs				
· · · · · · · · · · · · · · · · · · ·		ite per AMS-QQ se: No possibility exis				ng or testing of parts	on this contract.
Coating Thickness:	.0003	inches					
Embrittlement Relief Baked:		Hours at	·	F Within 1 Ho	ur of Plating.		
inspection Level to ap S-3 of MILSTD105I ASTM B602 Table II: Aircraft Braking Syste	Ö:	ard: 4 % 1.50% 1%		ACC. X			
Certified By:	James Bering President	Parmes Z ger Jr.	Berin	rger Jr.		Date: <u>11/13/2</u>	015